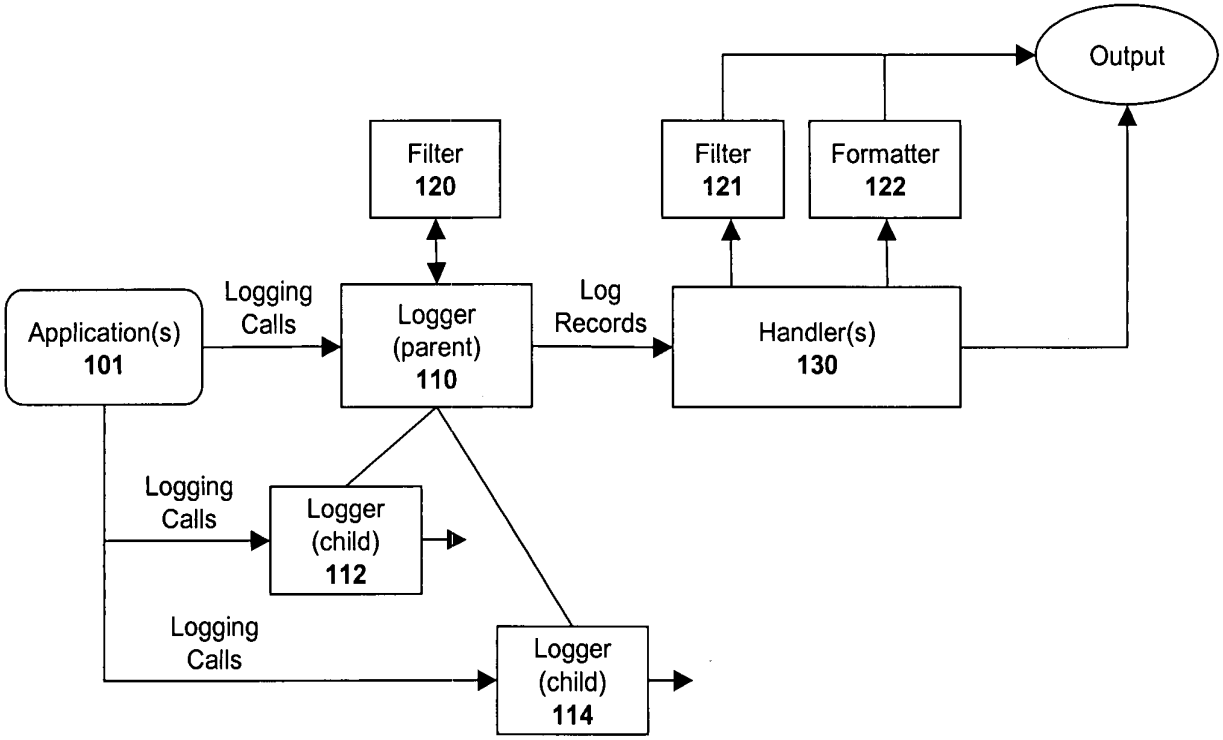

Fig. 1
(prior art)

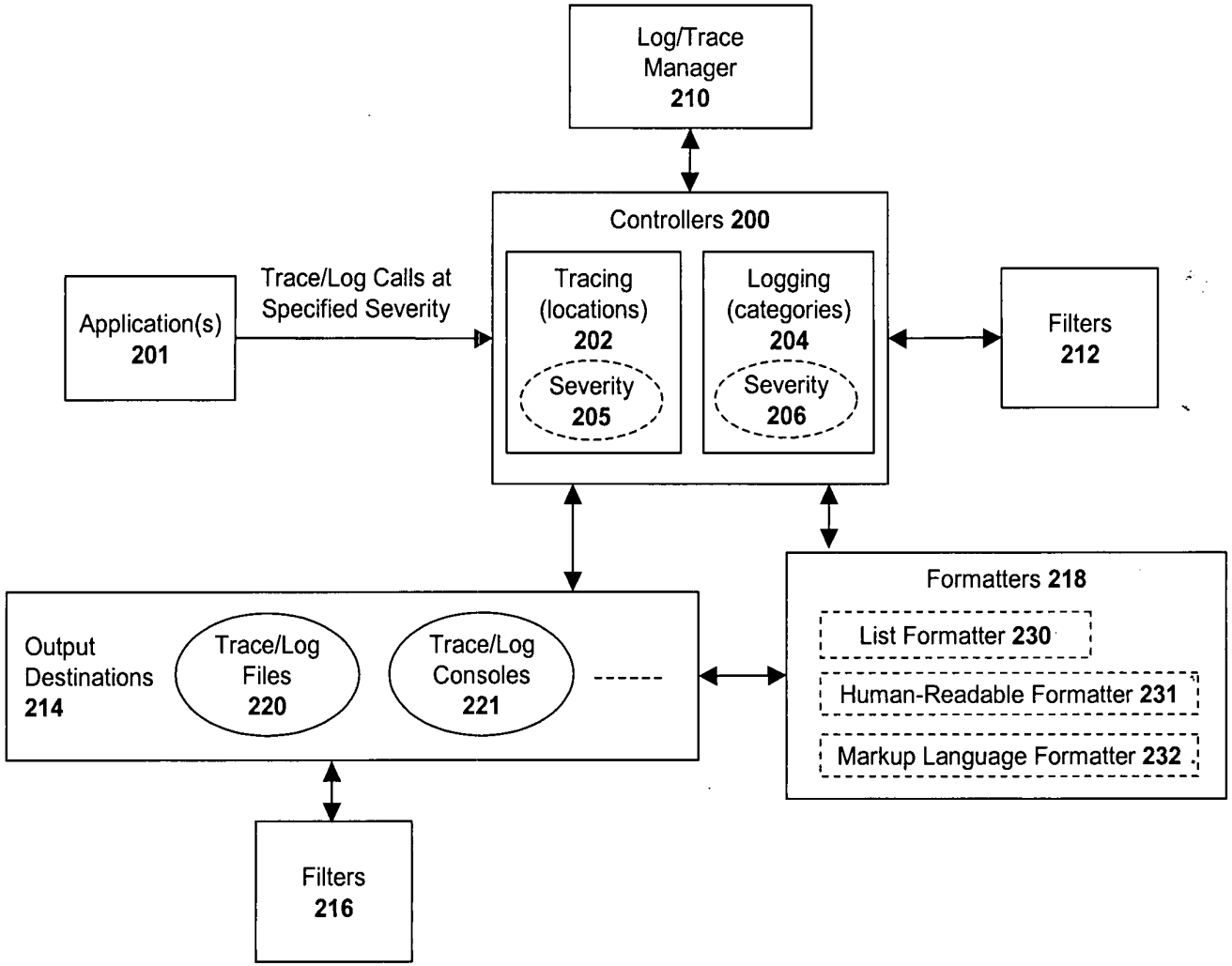
Log/Trace Manager 210
Controllers 200
Tracing (locations) 202
Severity 205
Logging (categories) 204
Severity 206
Application(s) 201
Trace/Log Calls at Specified Severity
Filters 212
Formatters 218
List Formatter 230
Human-Readable Formatter 231
Markup Language Formatter 232
Output Destinations 214
Trace/Log Files 220
Trace/Log Consoles 221
Filters 216

Fig. 2

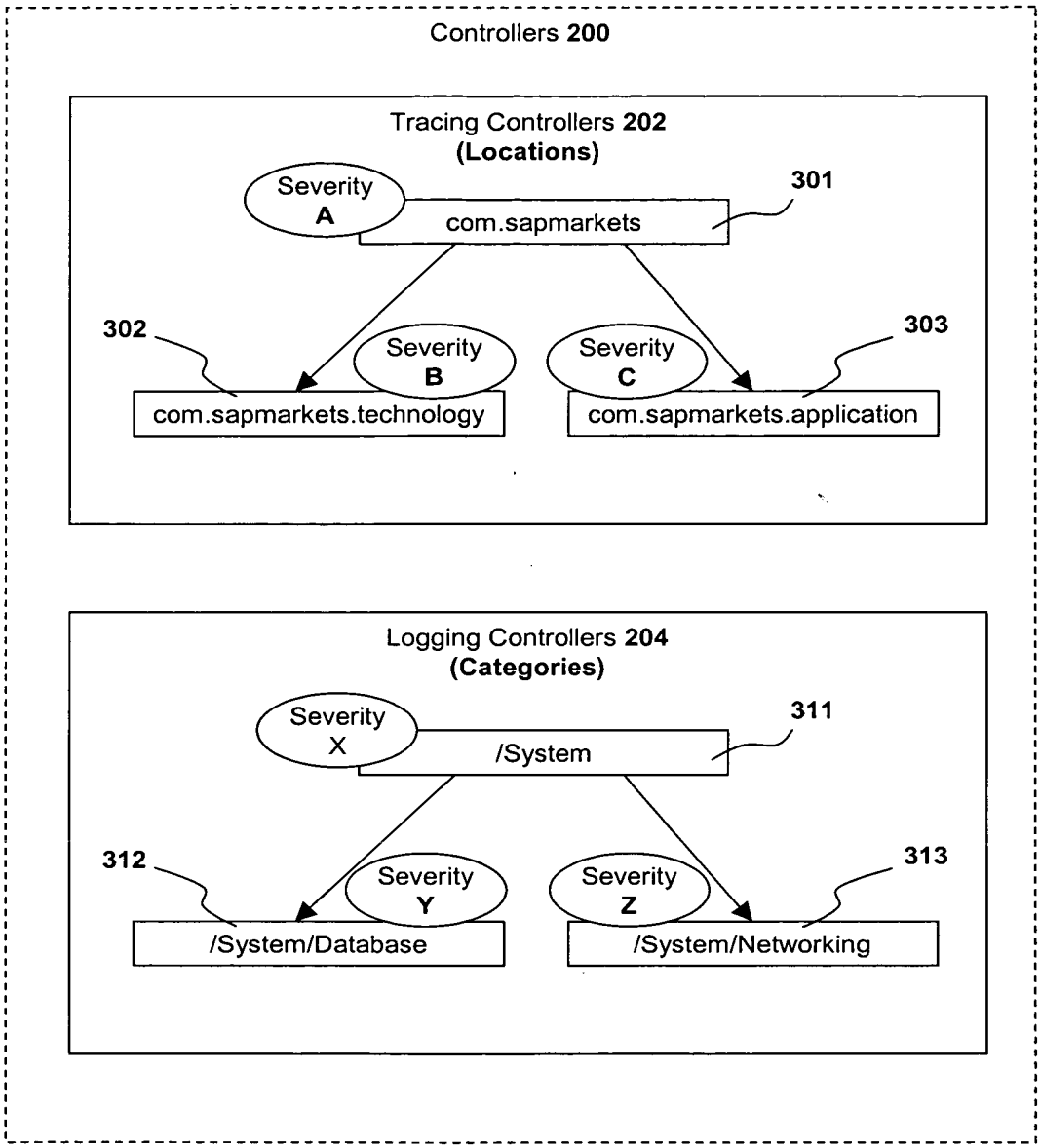
Controllers 200
Tracing Controllers 202
(Locations)
Severity
A
com.sapmarkets
301
302
Severity
B
303
Severity
C
com.sapmarkets.technology
com.sapmarkets.application
Logging Controllers 204
(Categories)
Severity
X
/System
311
312
Severity
Y
313
Severity
Z
/System/Database
/System/Networking

Fig. 3

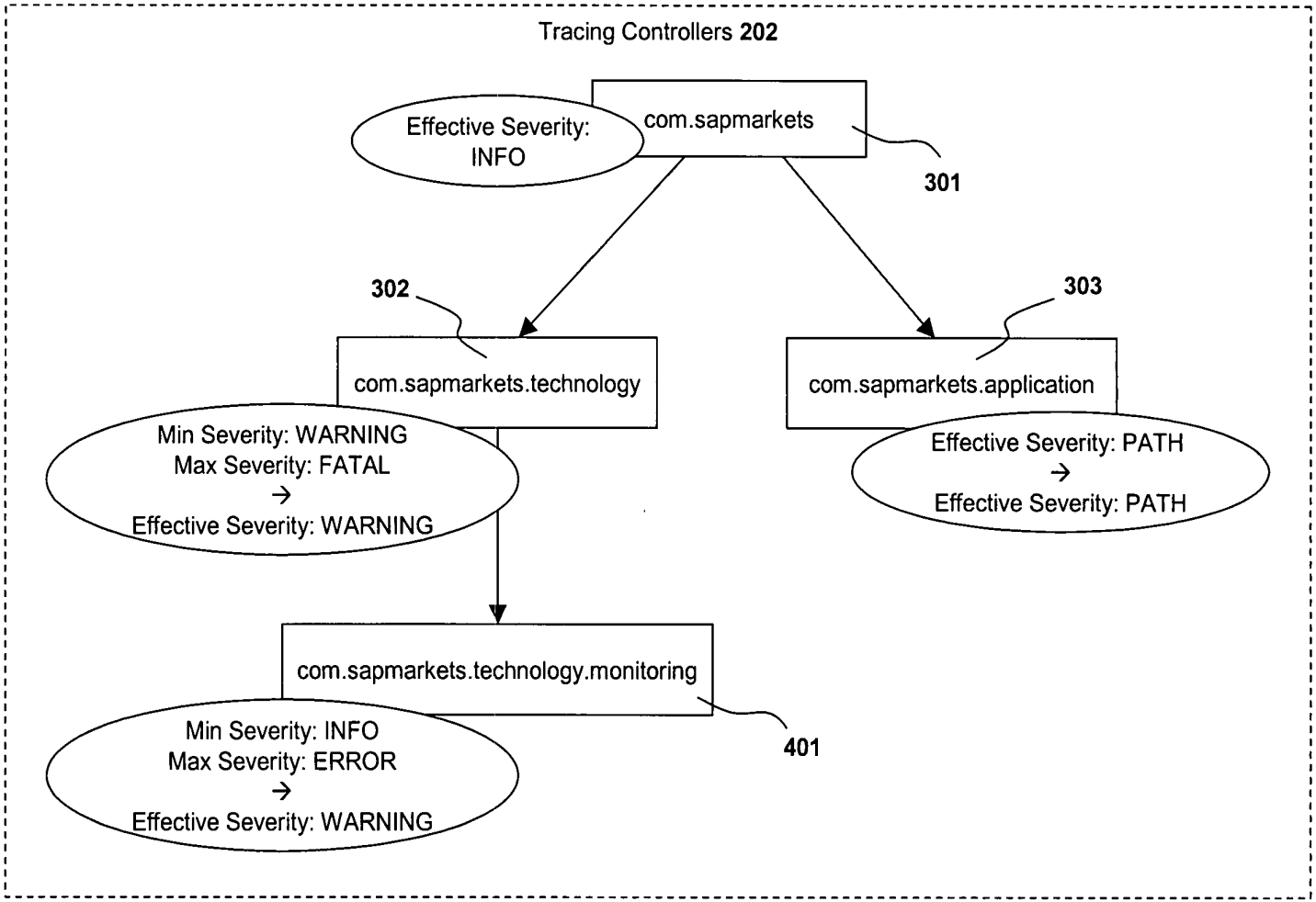
Tracing Controllers 202
Effective Severity:
INFO
com.sapmarkets
301
302
303
com.sapmarkets.technology
com.sapmarkets.application
Min Severity: WARNING
Max Severity: FATAL
→
Effective Severity: WARNING
Effective Severity: PATH
→
Effective Severity: PATH
com.sapmarkets.technology.monitoring
401
Min Severity: INFO
Max Severity: ERROR
→
Effective Severity: WARNING

Fig. 4

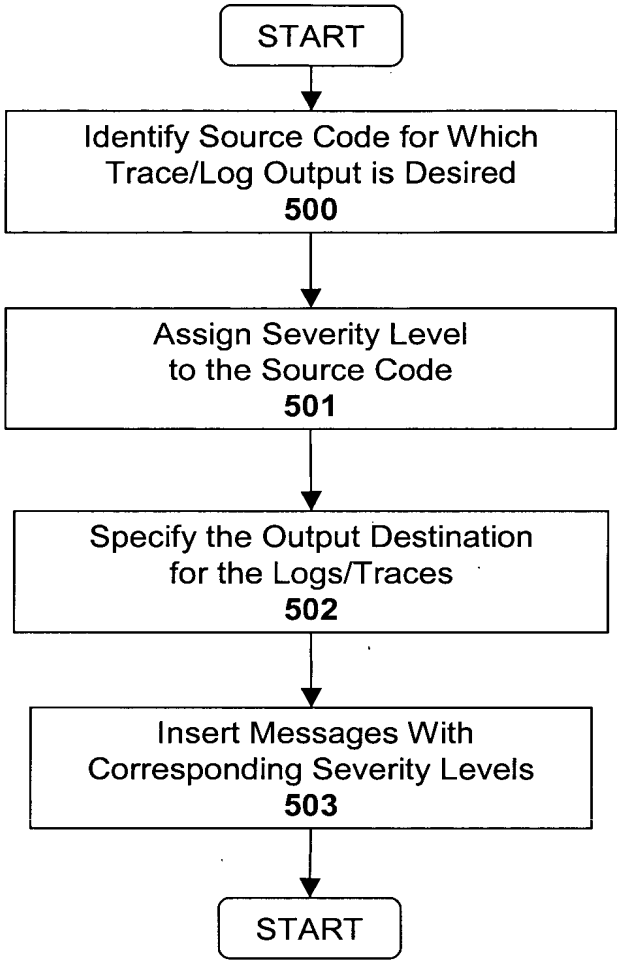
START
Identify Source Code for Which Trace/Log Output is Desired
500
Assign Severity Level to the Source Code
501
Specify the Output Destination for the Logs/Traces
502
Insert Messages With Corresponding Severity Levels
503
START

Fig. 5

Severity	Value	Details
MIN	0	Minimum restriction
DEBUG	100	For debugging purpose, with extensive and low level information
PATH	200	For tracing the execution flow, e.g., used in the context of entering and leaving a method, looping and branching operations
INFO	300	Informational text, mostly for echoing what has been performed
WARNING	400	Application can recover from anomaly, and fulfill the desired task, but need attention from developer/operator
ERROR	500	Application can recover from error, but cannot fulfill desired task due to the error
FATAL	600	Application cannot recover from error, and the severe situation causes fatal termination
MAX	700	Maximum restriction

Fig. 6a

Severity	Value	Details
ALL	0	Output messages of all severity
NONE	701	No messages will be logged

Fig. 6b